B & K-PRECISION MODEL 530 PARTS LIST

488-195-9-003

SCHEMATIC SYMBOL	DESCRIPTION	B & K PART NO.
	RESISTORS & CONTROLS	
R85	9.1KΩ, ±2%, ¼W, Deposited Carbon	002-039-9-001
R79	13KΩ, ±2%, ¼W, Deposited Carbon	002-040-9-001
R83, 81	18KΩ, ±2%, ¼W, Deposited Carbon	002-041-9-001
R121	100KΩ, ±20%, ¼W, Horizontal Mount Linear Trimpot	008-216-9-001
R101, 55	50KΩ, ±20%, ¼W, Horizontal Mount Linear Trimpot	008-224-9-001
R22, 87	10KΩ, ±20%, ¼W, Horizontal Mount Linear Trimpot	008-241-9-001
R72	30KΩ, ±10%, ½W, Linear Carbon Pot	008-301-9-001
R92, 106	500KΩ, ±20%, ¼W, Horizontal Mount Linear Trimpot	008-286-9-001
R56, 59	2KΩ, ±20%, ¼W, Horizontal Mount Linear Trimpot	008-287-9-001
R103, 58	1KΩ, ±20%, ¼W, Horizontal Mount Linear Trimpot	008-289-9-001
	CAPACITORS	
C44	10μf @ 250VDC Electrolytic	021-040-9-001
C42	100μf @ 10VDC Electrolytic	022-050-9-001
C38, 39, 40, 41	1000μf @ 25VDC Electrolytic	022-084-9-001
C20, 25	47μf @ 6.3VDC Tantalum	027-013-9-001
C56, 57, 47, 50, 49	.01μf @ 250VDC Polyester	025-027-9-001
C56, 46	.047μf @ 250V Polyester	025-096-9-001
C43	.1μf @ 100V Polyester	025-120-9-001
	COILS	
L1	Oscillator, 1 MHz	044-035-9-001
L2	Oscillator, 10 MHz	044-036-9-001
L3	Oscillator, 30 MHz	044-038-9-001

SCHEMATIC SYMBOL	DESCRIPTION	B & K PART NO.
	DIODES AND TRANSISTORS	
D14, 15, 16, 17, 24, 25	IN695, Germanium Diode	150-007-9-001
D19, 20, 21, 22, 23, 31, 33, 34, 35, 1, 2, 3, 13, 18, 32	IN4148, Silicon Diode	151-038-9-001
D4, 5, 6, 7, 10, 11, 27, 28, 30	Rectifier Diode	151-050-9-001
D9, 10	5.1V, ±5%, 1W Zener Diode	152-030-9-001
D12, 26	12V, ±5%, 1W Zener Diode	152-039-9-001
Q9, 10, 11, 12	2N5550 NPN Transistor	176-033-9-001
Q4, 5	MPS 2369 NPN Transistor	176-049-9-001
Q1, 2, 3, 14, 17, 18, 19, 22, 24, 29	MPS 6515 NPN Transistor	176-050-9-001
Q13, 20, 21, 23, 25, 26, 27, 28, 16	MPS 6519 PNP Transistor	177-015-9-001
Q15	SPS-2306 NPN Transistor	176-023-9-001
	INTEGRATED CIRCUITS	
IC1, IC6, IC9, IC10	LM324, Quad OP-Amp	307-060-9-001
IC3	4013, Dual D Flip-Flop	307-062-9-001
IC2, IC4, IC7, IC8	4011, Quad 2 Input Nand Gate	307-063-9-001
IC5	4023, Triple 3 Input Nand Gate	307-070-9-001
	SWITCHES	
S9	Lead Identification, Lever	080-002-9-001
S4	Spring Return, Rotary	083-195-9-001
S1	f_T Range, MHz	083-205-9-001
S3	SPDT, Slide (Speaker ON/OFF)	084-001-9-001
S8	DPDT, Slide (Power ON/OFF)	084-001-9-003
S2	DPDT, PC Slide, (Drive LO/HI)	084-043-9-001
S6	4PDT, PC Slide (NPN/PNP)	084-045-9-001
S7	4PDT, PC Slide Lo Pwr/Hi Pwr	
S5	Momentary 4-Pole, Push-Button	088-029-9-001

SCHEMATIC SYMBOL	DESCRIPTION	B & K PART NO.
	INDICATOR LAMPS	
LED-1, LED-2	Red LED, NPN/N-CH, PNP/P-CH	158-012-9-001
PL-1	Neon Lamp W/100KΩ Resistor	401-061-9-002
	MISCELLANEOUS	
F1	Fuse, 1/8 Amp, 250V, Slo-Blow Pigtail	193-011-9-001
T1	Power Transformer, 120V, 60Hz	065-118-9-001
T1	Power Transformer, 120/240V, 50/60 Hz	065-129-9-001
M1	f_T Meter	320-076-9-001
M2	Beta, Leakage, g_m Meter	320-077-9-001
SPKR-1	2″ Speaker, 8Ω	580-005-9-001
	Lever Switch Knob	751-118-9-001
	Skirted Knob with Pointer	751-133-9-001
	Skirted Bar Knob with Pointer	751-139-9-001
	Switch Button, Black	384-013-9-001
	Glamor Caps	384-015-9-001
	Test Lead Cable Assembly	523-135-9-001
	Transistor Socket	762-015-9-001
	Blue Banana Jack	774-001-9-003
	Green Banana Jack	774-001-9-004
	Yellow Banana Jack	774-001-9-006
	Line Cord	420-010-9-001
	Ferrite Core	870-002-9-001
	Terminal Strip	345-026-9-001
	Transistor Plug Assembly	523-178-9-001

MODEL 530 PARTS LIST

NOTE: Standard value resistors and capacitors are not listed. Values may be obtained from schematic diagram. Minimum charge $5.00 per invoice. Orders will be shipped C.O.D. unless previous open account arrangements have been made or remittance accompanies order. Advance remittance must cover postage or express charges. Specify serial number when ordering replacement parts.

B & K-PRECISION • DYNASCAN CORP. • 6460 W. Cortland St. • Chicago, Illinois 60635

CIRCUIT SYMBOLS

LAST NO. USED	NOT USED
R176	R60 THRU R65
C63	C51, C62, C60
D35	D29
IC10	
Q28	Q6, Q7, Q8
LED-2	

I.C. NO.	POWER SUPPLY CONNECTIONS	
	+5V.	-5V.
2, 3, 4, 5, 7, 8,	PIN 14	PIN 7
1, 6, 9, 10,	PIN 4	PIN 11

TEST SWITCH

POSITION ① ② ③ ④ ⑤ ⑥

GREEN S9A

BLUE S9B

YELLOW S9C

S9D

S9E

S9F

FERRITE BEAD

TEST SOCKET

TEST - GAIN - LEAKAGE

2 GREEN

3 YELLOW

1 BLUE

PUSH TO TEST

S5

DRIVE LO HI

S2A

S2B

BASE DRIVE

COLLECTOR DRIVE

EMITTER DRIVE

S4D

S4E

gm BETA

S4A

S4B

S4C

S4F

LO PWR

HI PWR

S6A

S6B

S6C

S6D

R116 100 CAL. TERM.*

*NOTE: SCREWED DOWN FOR NORM. OPR.

NPN PNP

S7A

S7B

S7C

S7D

LEAKAGE CAL

MID SCALE BETA CAL.

LO PWR. CAL.

HI PWR. CAL.

ZERO CAL LEAKAGE

ZERO CAL BETA-gm

METER

1mA. 110Ω

T.P.2 (Malco)

T.P.3 (Malco)

TP1 (MALCO)

SPEAKER OFF ON S3

SPEAKER 8Ω

LED-1

LED-2

PL-1

F1 1/8 AMP. SLO-BLO

POWER OFF ON S8

117 VAC. 60Hz.

PRIMARY WIRING

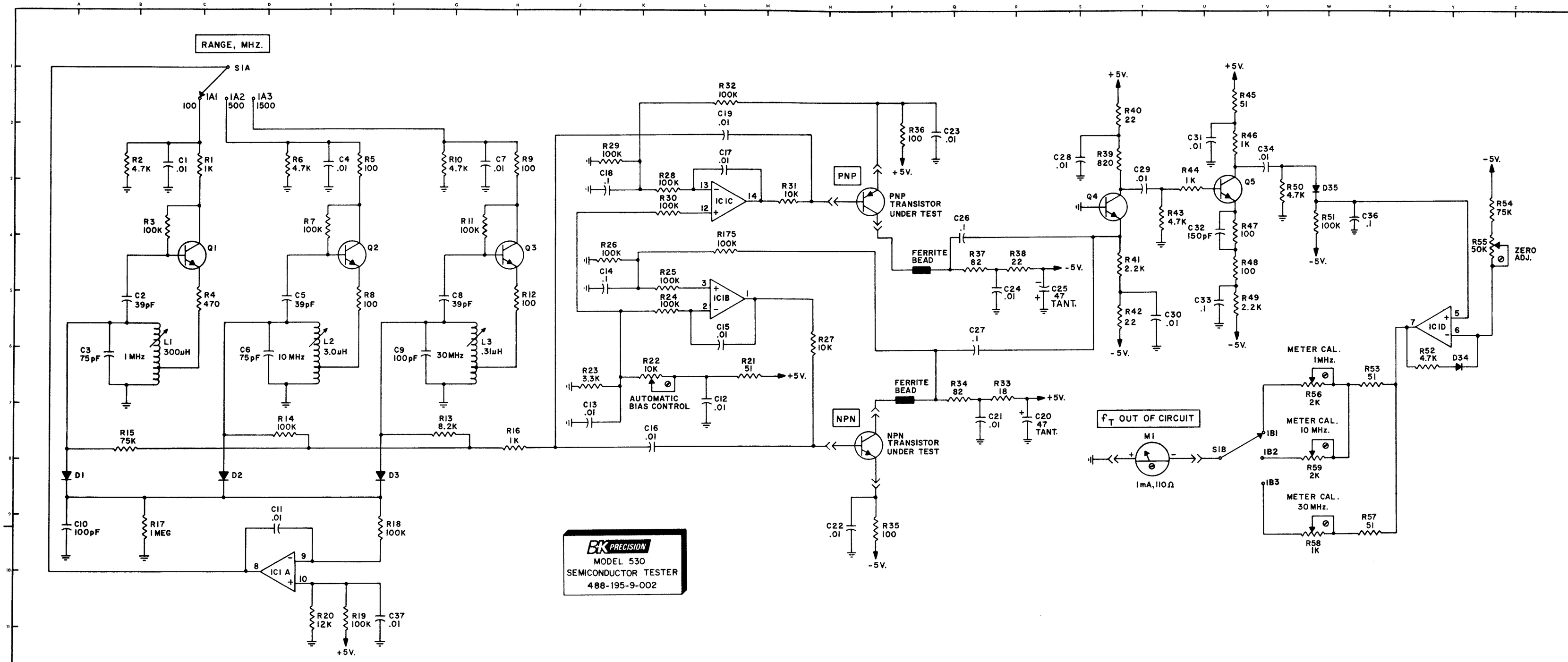
240V, 50/60Hz.

120V, 50/60Hz.

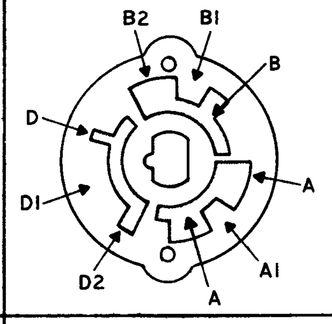
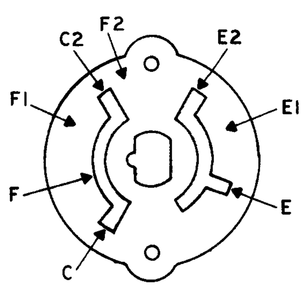
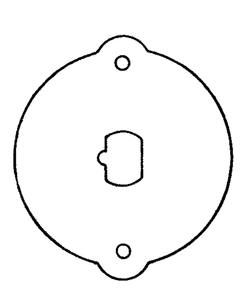
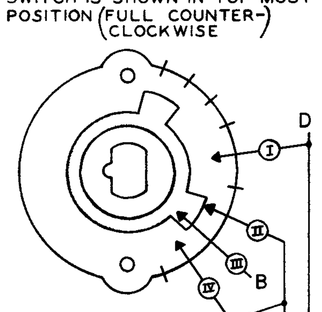
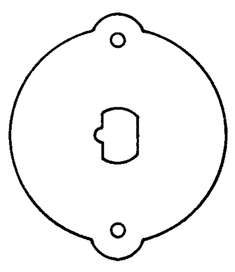
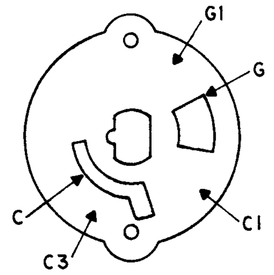
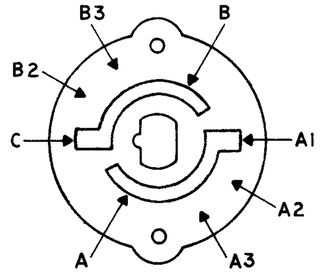
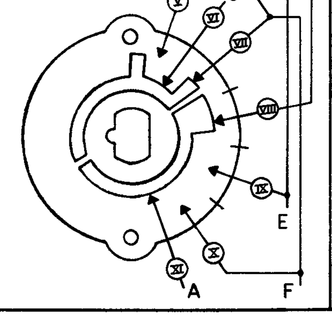
EXPORT MODEL WIRING (065-129-9-001)

BK PRECISION
MODEL 530
SEMICONDUCTOR TESTER
488-195-9-001

COMPOSITE
499-114-9-001



BK PRECISION
MODEL 530
SEMICONDUCTOR TESTER
488-195-9-002

	SWITCH 4 SECTION 1	SWITCH 4 SECTION 2	SWITCH 1 SECTION 1	SWITCH 9 SECTION 1
FRONT				SWITCH IS SHOWN IN TOP MOST POSITION (FULL COUNTER-CLOCKWISE) 
REAR				

SWITCH IS SHOWN IN CENTER POSITION

SWITCH IS SHOWN IN FULL COUNTER-CLOCKWISE POSITION

NOTES: (UNLESS OTHERWISE SPECIFIED)

ALL RESISTORS ARE 1/4 W, 5%, DEPOSITED CARBON.
ALL CAPACITORS SHOWN IN MICROFARADS.
TITLES IN RECTANGLES DENOTE FRONT PANEL CONTROLS.
SCHEMATIC SUBJECT TO CHANGE WITHOUT NOTICE.

⏚ = COMMON GROUND.

⏚ = CHASSIS GROUND.

SWITCH POST	PATTERN IN IDENTIFICATION WINDOW
1	B G Y
2	Y G B
3	Y B G
4	G B Y
5	G Y B
6	B Y G

COMPOSITE
499-114-9-001